



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>7</sup> : <b>C12Q 1/68</b>		<b>A2</b>	(11) International Publication Number: <b>WO 00/61795</b>
			(43) International Publication Date: 19 October 2000 (19.10.00)
(21) International Application Number: <b>PCT/EP00/02998</b>		(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TH, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GL, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	
(22) International Filing Date: <b>5 April 2000 (05.04.00)</b>			
(30) Priority Data: 99870068.6 9 April 1999 (09.04.99) EP 60/136,614 11 June 1999 (11.06.99) US			
(71) Applicant (for all designated States except US): INNOGENETICS N.V. [BE/BE]; Industriepark Zwijnaarde 7, Box 4, B-9052 Ghent (BE).		<b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>	
(72) Inventors; and (73) Inventors/Applicants (for US only): DE CANCK, Ilse [BE/BE]; Kruisshofstraat 146, Bus 105, B-2020 Antwerpen (BE), ROMBOUT, Annelies [BE/BE]; Hospitaalstraat 3, B-9080 Beersel (BE), ROSSAU, Rudi [BE/BE]; Wilgehoefstraat 45, B-2180 Ekeren (BE).			
(74) Common Representative: INNOGENETICS N.V.; Intellectual Property Department, Industriepark Zwijnaarde 7, Box 4, B-9052 Ghent (BE).			

(54) Title: METHOD FOR THE AMPLIFICATION OF HLA CLASS I ALLELES

## (57) Abstract

The present invention relates to a method and to specific primers for the locus-specific, separate amplification of exon 2, exon 3 and/or exon 4 of HLA-A, HLA-B or HLA-C alleles, making use of at least one primer set wherein: for the amplification of exon 2, the reverse primer specifically hybridizes to a locus-specific target sequence in intron 2 of respectively HLA-A, HLA-B or HLA-C; for the amplification of exon 3, the forward primer specifically hybridizes to a locus-specific target sequence in intron 2 of respectively HLA-A, HLA-B or HLA-C and/or the reverse primer specifically hybridizes to a locus-specific target sequence in intron 3 of respectively HLA-A, HLA-B or HLA-C; for the amplification of exon 4, the forward primer specifically hybridizes to a locus-specific target sequence in intron 3 of respectively HLA-A, HLA-B or HLA-C. In accordance, the present invention provides an improved method for the typing or subtyping of HLA Class I alleles making use of the amplification method of the invention.